

## **ABOUT THE CENTRE OF MANAGEMENT TEACHING AS OPTIMAL MEANS OF PROVIDING, SUPPORTING AND IMPLEMENTATING OF NEW PEDAGOGICAL TECHNOLOGIES AND IMPROVING QUALITY OF TEACHING IN EDUCATIONAL INSTITUTIONS**

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### **ABSTRACT**

In the article the basic principles of Centre management teaching unit (CMT) in the education institution are under study as the best means of implementing new modern technologies in learning process and unique electronic monitoring device for the quality of education. CMT as a block of electronic devices (video cameras, computers, WEB-cameras, audio communication, etc.) and didactic means (electronic textbook, cards of video surveillance, correction cards, information and reference cards, etc.) on the basis of special methodical development of various models of educational technology with the aid of video and audio recordings in the form of GPS-navigator monitors the effectiveness of the transmit, mastering, storage, and playback of information, ensuring the implementation of new pedagogical technology and, ultimately, improve the quality of teaching.

**KEYWORDS:** Pedagogical GPS-Navigator for the Teacher on the Mastery of Pedagogical Skills of Educational Technology, Surveillance Cameras, Cards, Operator CMT (Reference and Information, Correctional, Chronometer Tape Process of Observation and Correction of the Actions of the Teacher), WEB-Cameras

### **INTRODUCTION**

In modern conditions, the integration of Kazakhstan education in the European educational space in the field of educational institutions there is increasing a number of new educational technologies, mastering, and particularly the introduction of which is a particular challenge. The problem of training the teachers by new technologies is on the first place.

Teaching management center (CMT) developed by us (general outlook Figure 1), consists of a teacher trainer - GPS-navigator for the teacher on mastering pedagogical skills of a particular model of educational technology (Figure 2).

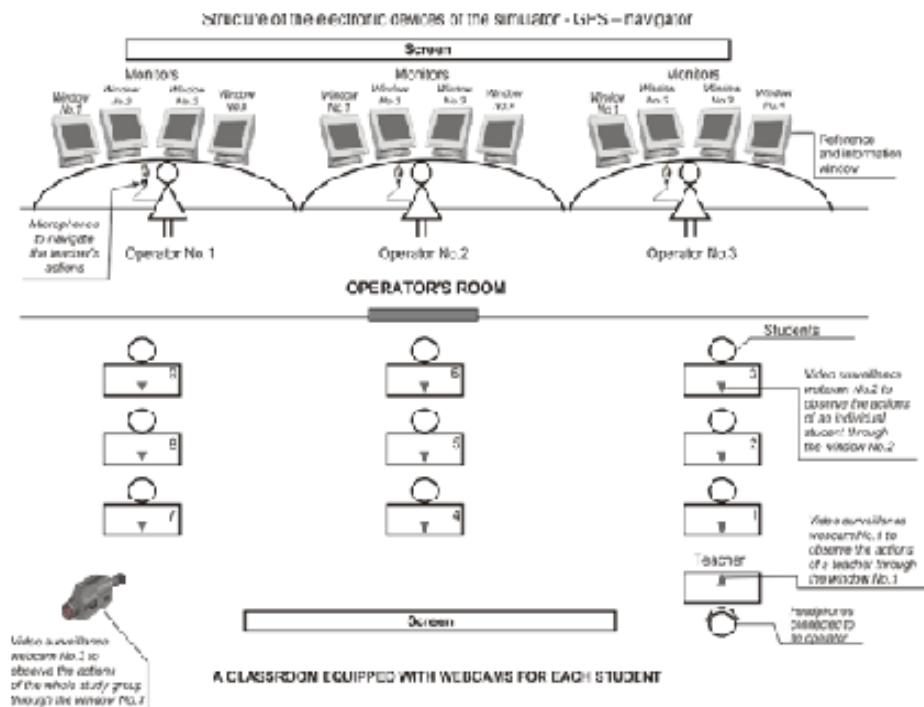


**Figure 1: General Outlook of Center Management Teaching**



**Figure 2: Pedagogical Simulator GPS-navigator**

This teaching simulator - GPS-navigator is a block of electronic devices and didactic tools (see Annex # 1) for mastering the teaching skills through numerous repetition and corrections in behavior and thinking of the teacher in a unified computer-teaching environment. It consists of electronic devices (cameras up to 15 units), computers (10 units), as well as teaching aids and tools (e-textbook, cards, video surveillance, correction cards, information and reference cards, etc.). Devices allow the teacher with the aid of corrective action by specially trained for this purpose, operator CMT quickly and effectively master the teaching skills of the chosen model of educational technology and improve their educational level. We can call this device having the functions of teacher simulator - GPS-navigator.



## Annex 1

Cameras of video surveillances after the teacher's action, serve for driving the training actions, made by the teacher according to the program, beforehand accepted as a standard in model of pedagogical technology at high quality of the video record where it will be possible to see all micro movements, gestures, a mimicry observed by a method of direct supervision via monitor screens. Card of the operator of Control center is served for these tasks on control and correction of teacher's actions where objects of supervision (what to observe?) and methods of fixing the results of supervision in tables of polls, interview, an estimation of an expert's signs.

Camera of video surveillances after actions of the teacher is a special organization of supervision over teaching process. Recommended Sequence of Activities is **reference information card (RIC)**, where defined actions, a breakdown of operations, orientation to the task.

There is an image of teachers, students in the interaction, communication in a group or one- to – one on the computer screen, in the conditions of combination of volume rendering and sound, that allows the operator of CMT plunge into the virtual world as close as possible to the real conditions of the classes.

One of the specific features in the actions of the operator, as we have noted above, there is interference (always correct) in the teaching process from his part, where "fate" of a teacher and classes are solved. There is a choice whether to ignore the interference or react constructing new ways to solve the problem.

**Reference and Information Card (RIC)** of CMT is the content educational technology model, placed on a separate computer, and it serves as a support while evaluating and correcting on this base of cognitive and behavioral actions of the teacher and students across the pedagogical model.

Thus, CMT operator is able to check and correct all teacher's actions and students with the "model" as a standard, a pattern of action with the utmost detail in reality.

Navigation in this case, as you know, is possible due to WEB- cameras installed on the teacher's and students' desks and taking pictures of their actions and speech in a non -stop, allowing the operator CMT always get only the most recent data on the state, action, content of actions and speech and then by referring them to the data RIC, if necessary, to interfere the actions of a party in online mode via audio communication with the teacher.

Thus, the RIC may serve as a reference for training of teachers with the aim of obtaining necessary skills to manage the process of teaching in the course of educational technology model as a static ideal model of the educational process.

All the functions carried out by the CMT operator with RIC; allow relating them to the functions of teacher simulator – GPS- navigator.

**Correctional card of operator CMT (CCOC)** is directly connected with the cards of an operator CMT and RIC. To each situation, picture an operator selects appropriate methods and put into ----for testing. If this choice is correct it is necessary to correct actions. Section cards CMT operator "Tracks of corrections stages" which reflected changes of observable objects in the form of non-verbal transformation taking place with them and inform the operator about the positive changes taking place in the observed. The scope of observations are various psychophysical state, position, situation, posture, body (upper part), the position of the head, shoulders, etc. samples of non-verbal, which includes the observed objects as a result of exposure of them by the methods and techniques of educational technology. With positive nonverbal signals emanating from the observed objects, the process of exposure can be stopped in case of positive results.

Chronometer tape process of observation and correction after the teacher's actions by the CMT operator can record the time of carrying out a particular model of didactic units and educational technology and indicate the degree of educational technology mastering.

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